



# MATERIAL SAFETY DATA SHEET

## I - PRODUCT INFORMATION

**PRODUCT:** R-Control<sup>®</sup> EPS, Contour Taper Tile<sup>®</sup>, Perform<sup>®</sup>, WSG<sup>®</sup>, Fabri-tech<sup>®</sup>, SpecLam<sup>™</sup> core, R-Control<sup>®</sup> SIP core and Geofoam

**SYNONYMS:** AFM Expanded Polystyrene (EPS)

**PRODUCT GRADES:** Type I, VIII, II and IX

**CHEMICAL FAMILY:** Polystyrene Thermoplastic

**CAS REGISTRY NO:** 9003536

**CAS NAME:** Ethenylbenzene Homopolymer

**FORMULA:** (C<sub>8</sub>H<sub>8</sub>)<sub>n</sub>

**TSCA INVENTORY STATUS:** Listed

<b>HAZARD RATING:</b>	2=Moderate	<b>HEALTH</b>	0
	0=Minimal	<b>FIRE</b>	2
	1=Slight	<b>REACTIVITY</b>	0
	3=Serious		
	4=Severe		

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## II - INGREDIENTS

### HAZARDOUS COMPONENTS:

Pentane

Halogen Flame Retardants

### CAS REGISTRY NO:

109660

N/A

### APPROX. WEIGHT PERCENTAGE:

1% Max.

.9% Max.

### NON-HAZARDOUS COMPONENTS:

Polystyrene

### CAS REGISTRY NO:

9003536

### APPROX. WEIGHT PERCENTAGE:

98% Min.

## III - PHYSICAL DATA

**FORM:** Rigid cellular foam blocks, boards, and shapes

**COLOR:** White

**ODOR:** Very slight hydrocarbon odor

**BOILING POINT:** N/A

**MELTING POINT:** Softens at 175° F. to 220° F.

**SPECIFIC GRAVITY (Water = 1):** Density 0.6 pcf to 2.0 pcf

**VAPOR PRESSURE:** N/A

**VOLATILES BY VOLUME:** < 4% (pentane and water)

**VAPOR DENSITY (Air = 1):** N/A

**EVAPORATION RATE:** None

**SOLUBILITY IN WATER:** Insoluble

## IV - FIRE & EXPLOSION DATA

**FLASH PT., AND METHOD USED:** 610° F. Min. (ASTM D 1929)

**SPECIAL FIRE FIGHTING INSTRUCTIONS:** Use approved self-contained breathing apparatus respirator and personal protective clothing (Turn out gear).

**EXTINGUISHING MEDIA:** Water fog, carbon dioxide, dry chemical, foam.

**AUTOIGNITION TEMPERATURE:** 850° F. Min.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** May produce dense black smoke. Smoke consists of carbon (soot) carbon monoxide, carbon dioxide, and water. Dust generated by fabrication, i.e., sanding, sawing, etc., will increase fire hazard and should be handled accordingly.

## V - REACTIVITY DATA

**STABILITY (CONDITIONS TO AVOID):** Stable. Avoid fire and high temperatures.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Will dissolve in most organic solvents, and some insecticides, aldehydes, and amines.

**HAZARDOUS DECOMPOSITION:** Carbon monoxide, carbon dioxide, carbon, water, hydrogen halide.

**HAZARDOUS POLYMERIZATION:** None

## VI - HEALTH HAZARDS & FIRST AID

### PRINCIPAL HEALTH HAZARDS & SIGNS & SYMPTOMS OF EXPOSURE

**EYE CONTACT:** Dust or particles may cause mechanical eye irritation and/or injury.

**INHALATION:** Dust from mechanical fabrication may cause upper respiratory irritation. Fumes from hot wire cutting can also cause upper respiratory irritation.

**SKIN CONTACT:** None. May produce slight skin irritation in a few individuals.

**INGESTION:** Biologically inert. May act as an obstruction if swallowed.

**CARCINOGENICITY:** None

**SAFETY PRECAUTIONS:** Use positive ventilation. Mechanical fabrication, sanding, etc., requires the use of safety glasses or goggles and dust mask.

### FIRST AID

**EYES:** Rinse with clean water. Remove foreign particles with clean, lint-free cloth. Obtain medical attention if pain, blinking, tears, or redness persist.

**INHALATION:** If overcome by exposure, move to fresh air. Provide oxygen and artificial respiration. Get medical attention.

**SKIN:** Not expected to present skin hazard. Wash exposed areas with mild soap and water. Consult physician if irritation persists.

**INGESTION:** Not expected to present significant ingestion hazard. Consult physician if swallowed.

## VII - EMPLOYEE PROTECTION

### PERSONAL PROTECTIVE EQUIPMENT:

**RESPIRATORY PROTECTION:** Use approved dust mask when sawing or sanding.

**SKIN PROTECTION:** None required. Wear gloves and/or sleeves, if sensitivity noted.

**EYE PROTECTION:** Use approved safety glasses/goggles when sawing or sanding.

**GENERAL CONTROL MEASURES:** Use positive ventilation. Wear safety glasses/goggles and dust mask if mechanical fabrication is to take place.

## VIII - SPILL OR LEAK PROCEDURES

**SPILL, LEAK, OR RELEASE PROCEDURES:** Normal good housekeeping should be observed. Material can be swept or picked up and placed into a suitable container for disposal.

**REPORTABLE QUANTITY:** None

**DISPOSAL METHOD:** Recycle, incinerate (WTE) or landfill per local and state regulations.

## IX - SPECIAL PRECAUTIONS

**STORAGE AND HANDLING:** Expanded Polystyrene, although it contains a fire retardant additive, is considered to be combustible and adequate protection from sources of ignition should be taken.

**TRANSPORTATION REQUIREMENTS:** Not a D.O.T. "Hazardous Material."

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